

8-555

ACCESS DB # 198319  
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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: SABINA GAZI Examiner #: 74141 Date: 6/19/06  
Art Unit: 1616 Phone Number: 7-0622 Serial Number: 10/518,669  
Location (Bldg/Room#): 4A45 (Mailbox #): 4C3 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Fungicidal combinations of active substances

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Date: 371 6/24/2002

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

CB 6-9

Please search for the synergistic combination of the compd of  
formula (I) - known as TRIFLOXYSTROBINE  
formula (II) - known as PROTHIOCONAZOLE  
formula (III) - known as TEBUCONAZOLE  
RN141517-21-7  
RN178928-70-6  
RN107534-96-3

Thank you

\*\*\*\*\*

STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher: \_\_\_\_\_

NA Sequence (#)

STN Dialog

Searcher Phone #: \_\_\_\_\_

AA Sequence (#)

Questel/Orbit Lexis/Nexis

Searcher Location: \_\_\_\_\_

Structure (#)

Westlaw WWW/Internet

Date Searcher Picked Up: \_\_\_\_\_

Bibliographic

In-house sequence systems

Date Completed: \_\_\_\_\_

Litigation

Commercial Oligomer Score/Length  
Interference SPDI Encode/Transl  
Other (specify) \_\_\_\_\_

Searcher Prep & Review Time: \_\_\_\_\_

Fulltext

Online Time: \_\_\_\_\_

Other

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FILE COVERS 1907 - 25 Aug 2006 VOL 145 ISS 10  
FILE LAST UPDATED: 24 Aug 2006 (20060824/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 AUG 2006 HIGHEST RN 904307-87-5  
DICTIONARY FILE UPDATES: 24 AUG 2006 HIGHEST RN 904307-87-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE CASREACT

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 20 Aug 2006 VOL 145 ISS 8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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\* CASREACT now has more than 10 million reactions \*  
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Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance

identification.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 24 Aug 2006 (20060824/PD)

FILE LAST UPDATED: 24 Aug 2006 (20060824/ED)

HIGHEST GRANTED PATENT NUMBER: US7096505

HIGHEST APPLICATION PUBLICATION NUMBER: US2006191048

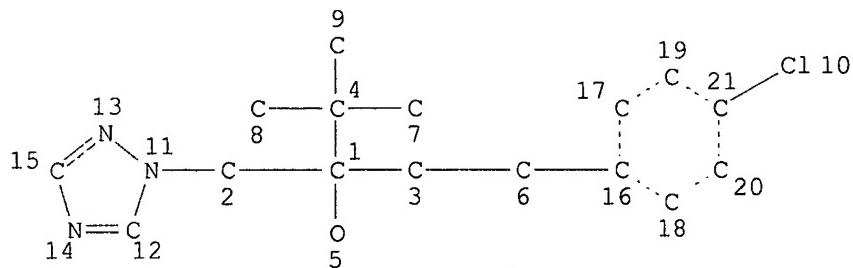
CA INDEXING IS CURRENT THROUGH 24 Aug 2006 (20060824/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 24 Aug 2006 (20060824/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2006

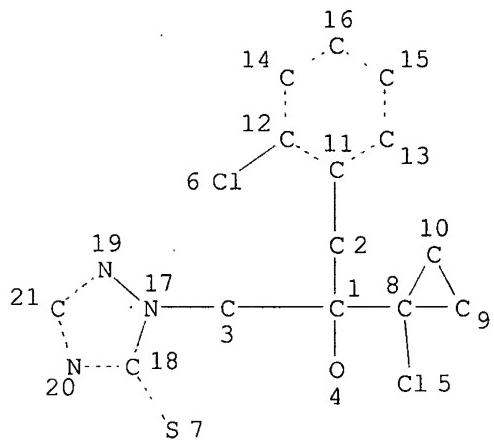
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L12 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 21

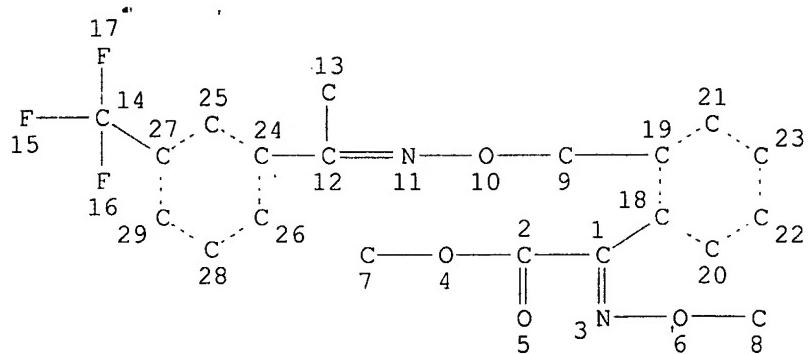
STEREO ATTRIBUTES: NONE  
L14 STR



NODE ATTRIBUTES:  
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE  
L16 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29

## STEREO ATTRIBUTES: NONE

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 L19 127 SEA FILE=REGISTRY SSS FUL L14  
 L20 130 SEA FILE=REGISTRY SSS FUL L16  
 L21 1 SEA FILE=REGISTRY ABB=ON L18 AND L19 AND L20  
 L30 1 SEA FILE=HCAPLUS ABB=ON L6 OR L21

=> d ibib abs hitstr 130 1-1

L30 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2004:2595 HCAPLUS  
 DOCUMENT NUMBER: 140:37412  
 TITLE: Synergistic fungicidal combinations of trifloxystrobin, prothioconazole, and tebuconazole  
 INVENTOR(S): Wachendorff-Neumann, Ulrike; Mauler-Machnik, Astrid; Jautelat, Manfred; Holmwood, Graham  
 PATENT ASSIGNEE(S): Bayer CropScience AG, Germany  
 SOURCE: PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000020	A1	20031231	WO 2003-EP6107	20030611
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10228103	A1	20040115	DE 2002-10228103	20020624
AU 2003232851	A1	20040106	AU 2003-232851	20030611
BR 2003012041	A	20050329	BR 2003-12041	20030611
EP 1517609	A1	20050330	EP 2003-760603	20030611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005530829	T2	20051013	JP 2004-514690	20030611
US 2006035942	A1	20060216	US 2005-518669	20050721
PRIORITY APPLN. INFO.:			DE 2002-10228103	A 20020624
			WO 2003-EP6107	W 20030611

AB A novel combination of fungicides comprises trifloxystrobin (I), prothioconazole (II), and tebuconazole (III) in the weight ratio of 1:(0.1-10):(0.1-10). Thus, I + II + III at 35 + 30 + 35 g/ha had a synergistic effect in control of Pyrenophora teres on barley. Said combination has very good fungicidal properties.

IT 635288-02-7

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic fungicide)

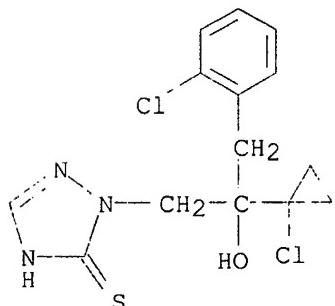
RN 635288-02-7 HCPLUS

CN Benzeneacetic acid,  $\alpha$ -(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy)methyl]-, methyl ester, ( $\alpha$ E)-, mixt. with 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione and  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

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CRN 178928-70-6

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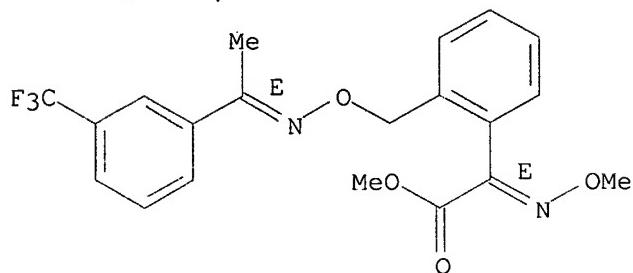


CM 2

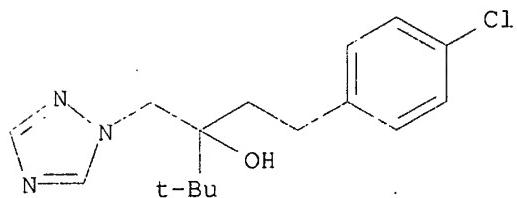
CRN 141517-21-7

CMF C20 H19 F3 N2 O4

Double bond geometry as shown.

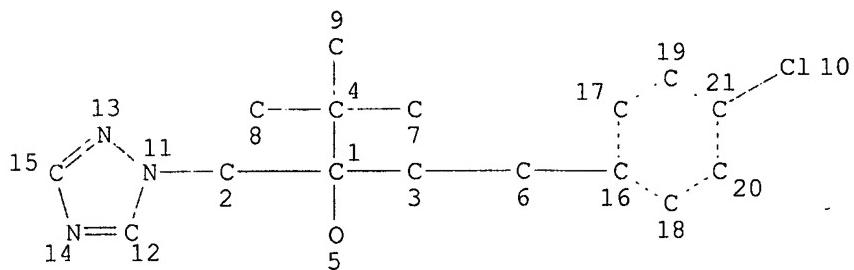


CM 3

CRN 107534-96-3  
CMF C16 H22 Cl N3 O

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

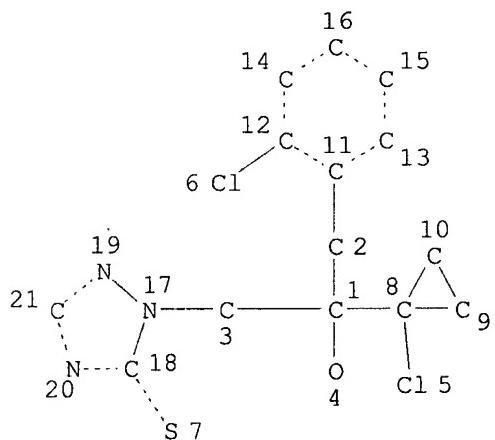
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L12 STR



NODE ATTRIBUTES:  
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 21

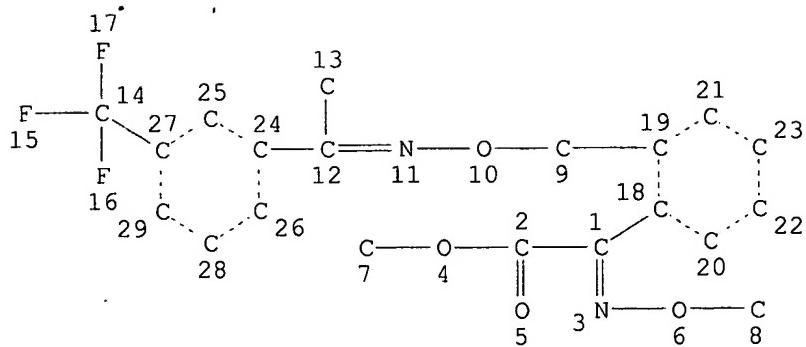
STEREO ATTRIBUTES: NONE  
L14 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE  
L16 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

## STEREO ATTRIBUTES: NONE

L18            230 SEA FILE=REGISTRY SSS FUL L12  
 L19            127 SEA FILE=REGISTRY SSS FUL L14  
 L20            130 SEA FILE=REGISTRY SSS FUL L16  
 L21            1 SEA FILE=REGISTRY ABB=ON L18 AND L19 AND L20  
 L31            1 SEA FILE=USPATFULL ABB=ON L6 OR L21

=&gt; d ibib abs hitstr 131 1-1

L31 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2006:41290 USPATFULL

TITLE: Fungicidal combinations of active substances

INVENTOR(S):  
 Wachendorff-Neumann, Ulrike, Neuwied, UNITED KINGDOM  
 Mauler-Machnik, Astrid, Leichlingen, UNITED KINGDOM  
 Jautelat, Manfred, Burscheid, UNITED KINGDOM  
 Holmwood, Graham, Leuverkusen, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006035942	A1	20060216
APPLICATION INFO.:	US 2003-518669	A1	20031106 (10)
	WO 2003-EP6107		20031106
			20050721 PCT 371 date

	NUMBER	DATE
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PRIORITY INFORMATION: DE 2002-10228103 20020624

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: NORRIS, MC LAUGHLIN &amp; MARCUS, P.A., 875 THIRD AVE, 18TH FLOOR, NEW YORK, NY, 10022, US

NUMBER OF CLAIMS: 5

EXEMPLARY CLAIM: 1-5

LINE COUNT: 258

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a novel fungicidally active compound

combination of 2-[ $\alpha$ -{[( $\alpha$ -methyl-3-trifluoromethylbenzyl)imino]oxy}- $\omega$ -tolyl]glyoxylic acid methyl ester O-methyl oxime of the formula (I) ##STR1## and the active compounds of formulae (II) and (III) mentioned in the disclosure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 635288-02-7

(as synergistic fungicide)

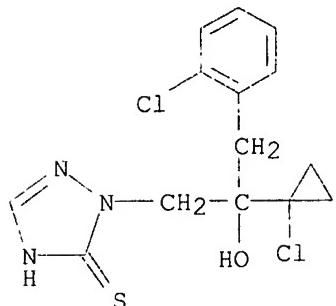
RN 635288-02-7 USPATFULL

CN Benzeneacetic acid,  $\alpha$ -(methoxyimino)-2-[[[(E)-[1-[3-(trifluoromethyl)phenyl]ethylidene]amino]oxy]methyl]-, methyl ester, ( $\alpha$ E)-, mixt. with 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione and  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 178928-70-6

CMF C14 H15 Cl2 N3 O S



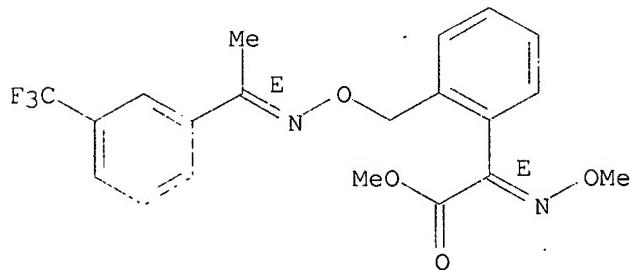
CM 2

CRN 141517-21-7

CMF C20 H19 F3 N2 O4

CDES 2:E,E

Double bond geometry as shown.



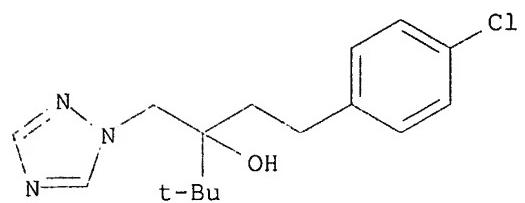
CM 3

CRN 107534-96-3

Qazi 10/518,669

25/08/2006

CMF C16 H22 Cl N3 O



Inventor Search

Qazi 10/518, 669

25/08/2006

=&gt; d ibib abs ind 15 1-1

L5 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:2595 HCAPLUS  
DOCUMENT NUMBER: 140:37412  
TITLE: Synergistic fungicidal combinations of trifloxystrobin, prothioconazole, and tebuconazole  
INVENTOR(S): Wachendorff-Neumann, Ulrike;  
Mauler-Machnik, Astrid; Jautelat,  
Manfred; Holmwood, Graham  
PATENT ASSIGNEE(S): Bayer CropScience AG, Germany  
SOURCE: PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000020	A1	20031231	WO 2003-EP6107	20030611
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DE 10228103	A1	20040115	DE 2002-10228103	20020624
AU 2003232851	A1	20040106	AU 2003-232851	20030611
BR 2003012041	A	20050329	BR 2003-12041	20030611
EP 1517609	A1	20050330	EP 2003-760603	20030611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005530829	T2	20051013	JP 2004-514690	20030611
US 2006035942	A1	20060216	US 2005-518669	20050721
PRIORITY APPLN. INFO.:			DE 2002-10228103	A 20020624
			WO 2003-EP6107	W 20030611

- AB A novel combination of fungicides comprises trifloxystrobin (I), prothioconazole (II), and tebuconazole (III) in the weight ratio of 1:(0.1-10):(0.1-10). Thus, I + II + III at 35 + 30 + 35 g/ha had a synergistic effect in control of Pyrenophora teres on barley. Said combination has very good fungicidal properties.
- IC ICM A01N043-653  
ICS A01N037-50
- CC 5-2 (Agrochemical Bioregulators)
- ST synergistic fungicide trifloxystrobin prothioconazole tebuconazole
- IT Fungicides  
(synergistic; prothioconazole-tebuconazole-trifloxystrobin mixture as)
- IT 635288-02-7  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(as synergistic fungicide)
- REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Qazi 10/518, 669

25/08/2006